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1	1.	A system	comprising:		
2		a speech	ecognizer that recognizes spoken requests for television		
3	programming information; and				
4		an output	device that generates responses to spoken requests for		
5	television programming information.				
1	2.	The syste	m of \hat{c} claim 1 including a module coupled to said		
2	recognizer to	implemen	t conversational speech.		
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The system of claim 2 including a graphical user interface which 3. provides information in a visual form about television programming and a voice user interface which responds to voice requests from the user, said graphical user interface and said voice user interface communicating such that the focus of one of said interfaces is communicated to the other.

- The system of claim 2 including a memory that stores an indication 4. when a attribute recognized by the speech recognizer is spoken by the speech synthesizer.
- The system of claim 2 wherein said module produces a select 5. variable and a where variable from a query received from a user.
- The system of claim 2 wherein said module develops a meaning 6. derived from said speech recognizer and historical information about previously

3 recognized speech and uses the historical information to modify the meaning 4 derived from said speech recognizer.

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- 7. The system of claim 6 wherein said module determines whether a query includes both a first and a second type of variable and if so, does not use the historical information to alter the meaning derived from a the speech recognizer.
- 8. only one of two variable types is contained in a spoken request and if so, merges 3 a variable with historical information to derive a meaning from the request.
 - The system of claim 1 wherein said module parses and stores time attributes in a request.
 - The system of claim, 9 wherein said module forms time attributes 10. with time ranges.
 - The system of claim 1 further including a processor coupled to a 11. speaker and microphone, the output from said speaker being subtracted from the output of said microphone to reduce interference between the audio portion of a television program and a spoken rèquest.
- The system of claim 1 including a television coupled to a set-top 1 12. box and a remote control that controls said\set-top box. 2

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programming information.

13. The system of claim 1 wherein said output device is a speech synthesizer that generates voice responses.

- 14. A method comprising:
 recognizing spoken requests for television programming information; and
 generating responses to spoken requests for television
- 15. The method of claim 14 including providing conversational speech recognition.
- 16. The method of claim 5 including providing a graphical user interface which generates information in a visual form about television programming and a voice user interface which responds to voice requests from the user, and communicating the focus of one of said interfaces to the other of said interface.
- 17. The method of claim 15 including storing an indication when a generated response includes a recognized attribute from the spoken request.
- 18. The method of claim 15 including parsing a select variable and a where variable from a spoken request.

1	19.	The method of claim 15 including storing meanings derived from		
2	current and	historical requests and using the historical requests to supplement		
3	the meaning derived from said current requests.			
1	20.	The method of claim 14 including parsing and storing time		
2	attributes in a request.			
1	21.	The method of claim $\frac{1}{4}$ further including subtracting a signal from		
2	a television (from the input from the use to reduce interference between the		
3	audio portio	n of a television program and a spoken request.		
1	22.	The method of claim 14 wherein generating responses includes		
2	synthesizina	snoken responses		

- 23. An article comprising a medium for storing instructions that cause a processor-based system to:

 recognize spoken requests for television program information; and generate responses to spoken requests for television programming information.
- 24. The article of claim 23 further storing instructions that cause a processor-based system to provide conversational speech recognition.
 - 25. The article of claim 24 further storing instructions that cause a processor-based system to provide a graphical user interface which generates

- information in a visual form about television programming and a voice user interface which responds to voice request from the user, and to indicate the focus of one of said interfaces to the other of said interfaces.
 - 26. The article of claim 24 further storing instructions that cause a processor-based system to store an indication when a generated response includes a recognized attribute from the spoken request.
 - 27. The article of claim 24 further storing instructions that cause a processor-based system to parse a SELECT variable and a WHERE variable from a spoken request.
 - 28. The article of claim 24 further storing instructions that cause a processor-based system to store meanings derived from the current and historical request and use the historical request to supplement the meaning derived from said current request.
 - 29. The article of claim 23 further storing instructions that cause a processor-based system to parse and store time attributes in a request.
 - 30. The article of claim 23 further storing instructions that cause a processor-based system to generate responses to spoken requests by synthesizing spoken responses.